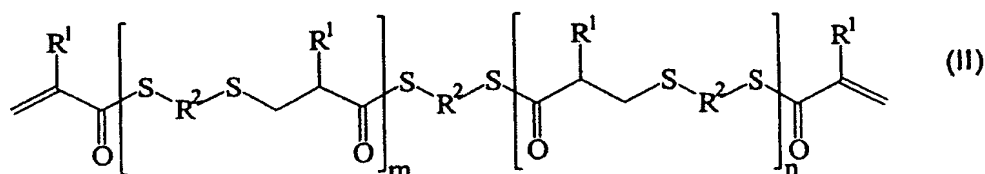
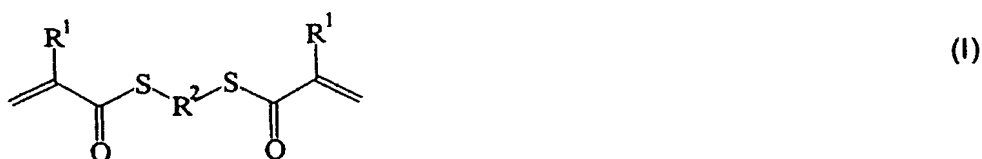


IN THE CLAIMS

Please amend the claims as follows:

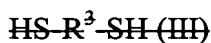
Claim 1 (Currently Amended): ~~Mixture~~ A mixture for preparing transparent plastics, ~~encompassing~~ comprised of

a) a prepolymer prepared from compounds of the formula (I) and (II)



where each R^1 , ~~independently of the others~~, is hydrogen or a methyl radical,
each R^2 , ~~independently of the others~~, is a linear or branched, aliphatic or cycloaliphatic radical, or a substituted or unsubstituted aromatic or heteroaromatic radical,
and each of m and n, ~~independently of the others~~, is a whole number greater than or equal to 0, where $m + n > 0$, and

from alkyl dithiols or from polythiols, ~~preferably compounds of the formula (III)~~,



~~where R^3 , identical with or different from R^2 , can be as defined for R^2~~ , and

b) at least one monomer (A) capable of free-radical polymerization and having at least
[[2]] two methacrylate groups, and
c) aromatic vinyl compounds,

d) if ~~appropriate~~, a monomer selected from the group consisting essentially of a monomer capable of free-radical polymerization and having at least two terminal olefinic groups whose reactivity differs, ~~and/or~~

e) if ~~appropriate~~, at least one ethylenically unsaturated monomer (B) and mixtures thereof.

Claim 2 (Currently Amended): ~~Mixture~~ A mixture according to Claim 1, ~~characterized in that it comprises~~ comprising more than 10 mol%, ~~of compounds of the formula (II) where $m + n = 2$ based on the total amount of the compounds of the formula (I), (II) and (III), of compounds of the formula (II) where $m + n = 2$ (I), (II) and compounds from alkyl dithiols or from polythiols.~~

Claim 3 (Currently Amended): ~~Mixture~~ A mixture according to ~~any of the preceding claims~~ Claim 1, ~~characterized in that~~ comprising the radical R^2 of the formulae (I) and/or (II) is an aliphatic radical having from 1 to 10 carbon atoms.

Claim 4 (Currently Amended): ~~Mixture~~ A mixture according to ~~any of the preceding claims~~ Claim 1, ~~characterized in that the mixture comprises~~ comprising more than 5.8 mol% of compounds of the formula (II) where $m+n=3$, based on the total amount of the compounds of the formula (I) and (II), and (III), ~~of compounds of the formula (I), (II) and compounds from alkyl dithiols or from polythiols.~~

Claim 5 (Currently Amended): ~~Mixture~~ A mixture according to ~~any of the preceding claims~~ Claim 1, ~~characterized in that the mixture comprises~~ comprising from 0.1 to 50 mol% of compounds of the formula (I), based on the total amount of the compounds of the formula

(I), (II)₁ and ~~(III)~~ (I), (II) and compounds from alkyl dithiols or from polythiols of compounds of the formula (I).

Claim 6 (Currently Amended): ~~Mixture~~ A mixture according to ~~any of the preceding~~ claims claim 1, ~~characterized in that the mixture comprises~~ comprising from 1 to 40 mol% of compounds of the formula (II) where $m + n = 1$, based on the total amount of the compounds of the formula (I), (II)₁ and ~~(III)~~ (I), (II) and compounds form alkyl dithiols or from polythiols, ~~of compounds of the formula (II) where $m + n = 1$~~ .

Claim 7 (Currently Amended): ~~Mixture~~ A mixture according to ~~any of the preceding~~ claims Claim 1, ~~characterized in that the mixture comprises~~ comprising compounds of the formula (II) where $m + n > 3$.

Claim 8 (Currently Amended): ~~Mixture~~ A mixture according to ~~any of the preceding~~ claims Claim 1, ~~characterized in that~~ wherein the total content of compounds of the formula (I), (II)₁ and ~~(III)~~ (I), (II) and compounds form alkyl dithiols or from polythiols is at least 5.0% by weight, based on the total weight of the mixture.

Claim 9 (Currently Amended): ~~Mixture~~ A mixture according to ~~any of the preceding~~ claims Claim 1, ~~characterized in that~~ wherein the mixture comprises at least one monomer (A) which is copolymerizable with the prepolymers prepared from the monomers of ~~the formulae (I), (II) and (III)~~ formulas (I), (II) and compounds from alkyl dithiols or from polythiols.

Claim 10 (Currently Amended): ~~Mixture~~ A mixture according to Claim 9,
~~characterized in that wherein~~ the mixture ~~encompasses~~ further comprises di(meth)acrylates.

Claim 11 (Currently Amended): ~~Mixture~~ A mixture according to ~~the preceding~~
~~claims Claim 1, characterized in that wherein~~ the aromatic vinyl compounds ~~present in the~~
~~mixture preferably~~ comprise styrene.

Claim 12 (Currently Amended): ~~Mixtures~~ A mixture according to Claim 1,
~~characterized in that it comprises~~ further comprising a monomer capable of free-radical
polymerization and having at least two terminal olefinic groups whose reactivity differs, of
the ~~general~~ formula



where

the radical R^{19} at opposing ends of the molecule represented by the formula (XII) is
the same or different and is selected from the group consisting essentially of independently a
hydrogen atom, a fluorine atom, ~~and/or~~ and a methyl group,

the radical R^{18} is a connecting group which ~~preferably encompasses from~~ has from 1
to 1000, ~~in particular from 2 to 100,~~ carbon atoms,

the radical Y is a ~~bond or~~ a connecting group having from 0 to 1000 carbon atoms, ~~in~~
~~particular from 1 to 1000 carbon atoms, and preferably from 1 to 100 carbon atoms.~~

Claim 13 (Currently Amended): ~~Mixtures~~ A mixture according to Claim 12,
~~characterized in that they comprise~~ further comprising allyl polyethylene glycol methacrylate.

Claim 14 (Currently Amended): ~~Mixtures~~ A mixture according to Claim 1,
~~characterized in that they comprise~~ further comprising at least one ethylenically unsaturated
monomer (B), ~~preferably methacrylate~~.

Claim 15 (Currently Amended): ~~Mixtures~~ A mixture according to Claim 14, wherein
(B) ~~characterized in that they comprise~~ comprises 2-hydroxyethyl methacrylate.

Claim 16 (Currently Amended): ~~Process~~ A process for preparing a transparent
plastics, ~~characterized in that a mixture according to any of the preceding claims is~~
polymerized plastic comprising polymerizing the mixture of Claim 1.

Claim 17 (Currently Amended): ~~Transparent~~ A transparent plastic ~~obtainable via a~~
prepared by the process of ~~according to~~ Claim 16.

Claim 18 (Currently Amended): ~~Plastic~~ A plastic according to Claim 17,
~~characterized in that~~ wherein the refractive index of the plastic to DIN 53491 is greater than
1.59.

Claim 19 (Currently Amended): ~~Plastic~~ A plastic according to Claim 17 ~~or 18~~,
~~characterized in that~~ wherein the Abbe number of the plastic to DIN 53491 is greater than 36.

Claim 20 (Currently Amended): ~~Plastic~~ A plastic according to ~~any of Claims Claim~~
~~17 to 19, characterized in that wherein~~ [[the]] an average diameter of [[the]] a ball which does
not damage the test specimen in [[the]] a falling ball test is ≥ 18 .

Claim 21 (Currently Amended): ~~Plastic~~ A plastic according to ~~any of Claims Claim~~
~~17 to 20, characterized in that wherein~~ the transmittance of the plastic to DIN 5036 is $\geq 89\%$.

Claim 22 (Currently Amended): ~~Plastic~~ A plastic according to ~~any of Claims Claim~~
~~17 to 21, characterized in that its wherein the~~ glass transition temperature is greater than
80.0°C.

Claim 23 (Currently Amended): ~~Use of~~ A method of using the high-transparency
plastic according to ~~any of Claims Claim~~ 17 to 22 as an optical lens.

Claim 24 (Currently Amended): ~~Optical, An optical in particular ophthalmic,~~ lens
comprising a transparent plastic according to ~~at least one of Claims Claim~~ 17 to 22.